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A search for possible anisotropies of cosmic rays with $0.1 < E < 10$ EeV in the region of the Galactic Centre.

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Abstract content

We present updated results for anisotropy searches in the direction of the Galactic centre at energies in the EeV range. We use data from the Pierre Auger Southern Observatory up to March, 2007. Present analyses are therefore based on a substantially larger data set than our previous published results. The larger statistics from the surface array allow for more precise measurements as a function of energy while the fluorescence detector data allow for the extension of our searches to energies below 1 EeV. In this paper, we test several scenarios for predicted sources of cosmic rays arriving from the Galactic center with energies between 0.1 and 10 EeV.

If this papers is presented for a collaboration, please specify the collaboration

Pierre Auger Observatory

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olive, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 4 (HE part 1), pages 171-174

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